

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-2 (cancelled).

Claim 3 (currently amended): A projection system comprising:

an oscillating mirror;

a laser light source, wherein a projection light bundle is produced starting from the laser light source using the oscillating mirror, and

at least one light sensor₂ arranged at an edge region of the projection light bundle, the at least one light sensor using a modulated brightness level obtained from the at least one light sensor and a counter-control circuit to detect (i) a position of the oscillating mirror and (ii) a specific characteristic by a counter content of the modulated brightness level.

Claim 4 (previously presented): The projection system as claimed in claim 3, wherein the brightness of the projection light bundle is modulated at least in a partial region of an image to be projected, and the position of the oscillating mirror is determined by correlating the modulation of the projection light bundle with a detector signal from the light sensor.

Claim 5 (currently amended): A method for operating a projection system, comprising:

modulating a brightness level at least in a partial region of an image to be projected in the projection system;

obtaining the modulated brightness level from a light sensor; and

detecting an oscillation status of an oscillating mirror, a position of the oscillating mirror, and a specific characteristic by a counter content of the modulated brightness level using the modulated brightness level obtained from the light sensor and using a countercontrol circuit.

Claim 6 (previously presented): The method according to claim 5, wherein the position of the oscillating mirror is determined by correlating the modulated brightness level with a detector signal generated from the light sensor.